

M 6.8, EASTERN HONSHU, JAPAN

Origin Time: Wed 2008-07-23 15:26:19 UTC

Location: 39.80°N 141.46°E Depth: 108 km

PAGER Version 5

Created: 6 days, 0 hrs after earthquake

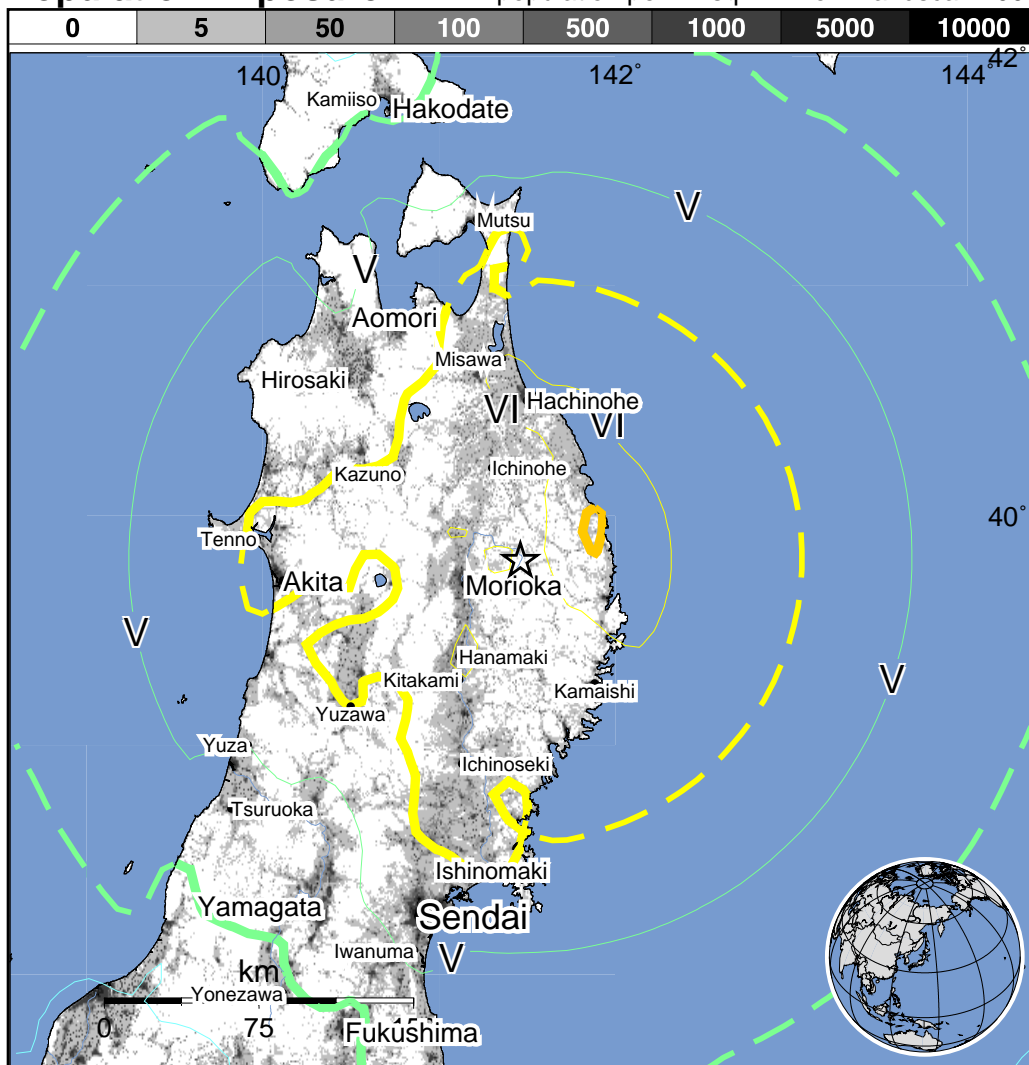
Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k = x1000) | | - - * | 190k* | 2,719k* | 3,442k | 3,707k | 154k | 0 | 0 | 0 |
|---|-----------------------|----------|--------|---------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | none | none | none | V. Light | Light | Moderate | Moderate/Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | none | none | none | Light | Moderate | Moderate/Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landsat 2006

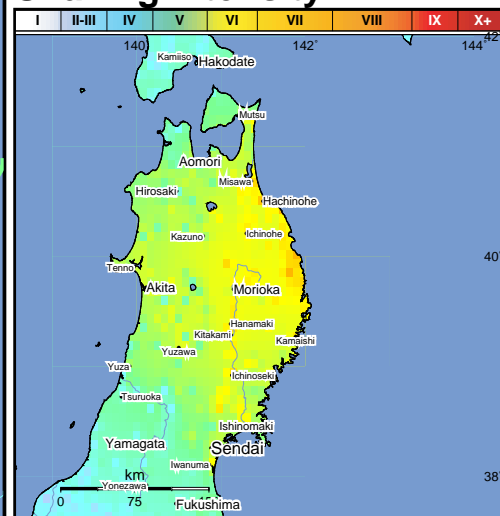


Selected City Exposure

| MMI City | Population |
|----------------------|---------------|
| VII Hachinohe | 239k |
| VI Misawa | 42k |
| VI Hanamaki | 73k |
| VI Kamaishi | 43k |
| VI Ichinoseki | 62k |
| VI Miyako | 51k |
| VI Ichinohe | 15k |
| VI Akita | 320k |
| VI Sendai | 1,037k |
| V Aomori | 298k |
| IV Niigata | 505k |

bold cities appear on map (k = x1000)

Shaking Intensity



Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. A magnitude 6.6 earthquake 365 km Northeast of this one struck Niigata, Japan on October 23, 2004 (UTC), with estimated population exposures of 481,000 at intensity IX or greater and 386,000 at intensity VIII, resulting in an estimated 67 fatalities. On July 12, 1993 (UTC), a magnitude 7.7 earthquake and tsunami 389 km Northeast of this one struck Hokkaido Nansei-Oki, Japan, with estimated population exposures of 4,000 at intensity VIII and 84,000 at intensity VII, resulting in an estimated 230 fatalities. Recent earthquakes in this area have caused, landslides and fires that may have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.

<http://earthquake.usgs.gov/pager>

Event ID: us2008uva4